

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 1064 + 1982

Source: 0.76

Date Processed by STIC: 9-3-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - Or
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER:	
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALI	PHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."		
2Invalid Line Length	The rules require that a line not exceed 72	characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.		
4Non-ASCII	The submitted file was not saved in ASCII ensure your subsequent submission is say	(DOS) text, as required by the Sequence Rules. Please yed in ASCII text.	
5Variable Length	each n or Xaa can only represent a single	senting more than one residue. Per Sequence Rules, residue. Please present the maximum number of each in the <220>-<223> section that some may be missing.	
6PatentIn 2.0 "bug"	previously coded nucleic acid sequence. Pl	the <220>-<223> section to be missing from amino acidentIn would automatically generate this section from the ease manually copy the relevant <220>-<223> section to applies to the mandatory <220>-<223> sections for	
7Skipped Sequences (OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:	please insert the following lines for each skipped sequence: (insert SEQ ID NO where "X" is shown) FICS: (Do not insert any subheadings under this heading)	
	(xi) SEQUENCE DESCRIPTION:SEQ ID This sequence is intentionally skipped	NO:X: (insert SEQ ID NO where "X" is shown) EQUENCES:" response to include the skipped sequences.	
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentions <210> sequence id number <400> sequence id number 000	I, please insert the following lines for each skipped sequence.	
9Use of n's or Xaa's (NEW RULES)		in the Sequence Listing<223> is MANDATORY if n's or Xaa's are present. ocation of n or Xaa, and which residue n or Xaa represents.	
10 X Invalid <213> Response		1 <213> responses are: Unknown, Artificial Sequence, or 223> section is required when <213> response is Unknown or	
11Use of <220>	Use of <220> to <223> is MANDATORY i "Unknown." Please explain source of gene	'Feature' and associated numeric identifiers and responses. f <213> "Organism" response is "Artificial Sequence" or tic material in <220> to <223> section. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12PatentIn 2.0 "bug"	resulting in missing mandatory numeric ide	of PatentIn version 2.0. This causes a corrupted file, intifiers and responses (as indicated on raw sequence or any other manual means to copy file to floppy disk.	
13Misuse of n	n can only be used to represent a single nucleotide.	eleotide in a nucleic acid sequence. N is not used to represent	
		a . D 1 00010001	

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

DATE: 09/03/2003 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/647,982 TIME: 10:50:42

```
Input Set: A:\01313.txt
                     Output Set: N:\CRF4\09032003\J647982.raw
      3 <110> APPLICANT: Kaytes, Paul
              Teng, Chi-Hse
      6 <120> TITLE OF INVENTION: Single Nucleotide Polymorphisms Diagnostic for Schizophrenia
      8 <130> FILE REFERENCE: 01313.PRO1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/647,982
C--> 10 <141> CURRENT FILING DATE: 2003-08-26
     10 <160> NUMBER OF SEO ID NOS: 42
     12 <170> SOFTWARE: PatentIn version 3.0
     14 <210> SEQ ID NO: 1
     15 <211> LENGTH: 3080
     16 <212> TYPE: DNA
     17 <213> ORGANISM: Homo sapiens
     19 <220> FEATURE:
     20 <221> NAME/KEY: variation
     21 <222> LOCATION: (194)..(194)
     22 <223> OTHER INFORMATION: polymorphism G or A
     25 <220> FEATURE:
     26 <221> NAME/KEY: variation
     27 <222> LOCATION: (601)..(601)
     28 <223> OTHER INFORMATION: polymorphism A or G
     31 <220> FEATURE:
                                                                 Corrected Diskette Needed
                                                                Does Not Comply
     32 <221> NAME/KEY: variation
     33 <222> LOCATION: (1029)..(1029)
     34 <223> OTHER INFORMATION: polymorphism A or G
     37 <220> FEATURE:
     38 <221> NAME/KEY: variation
     39 <222> LOCATION: (1038)..(1038)
     40 <223> OTHER INFORMATION: polymorphism C or G
     43 <220> FEATURE:
     44 <221> NAME/KEY: variation
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61 <220> FEATURE:

49 <220> FEATURE:

55 <220> FEATURE:

62 <221> NAME/KEY: variation

50 <221> NAME/KEY: variation

56 <221> NAME/KEY: variation

63 <222> LOCATION: (2359)..(2359)

45 <222> LOCATION: (1074)..(1074)

51 <222> LOCATION: (2106)..(2106)

57 <222> LOCATION: (2185)..(2185)

46 <223> OTHER INFORMATION: polymorphism A or C

52 <223> OTHER INFORMATION: polymorphism G or A

58 <223> OTHER INFORMATION: polymorphism G or A

RAW SEQUENCE LISTING DATE: 09/03/2003
PATENT APPLICATION: US/10/647,982 TIME: 10:50:42

Input Set: A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

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64 <223> OTHER INFORMATION: polymorphism T or G
     67 <220> FEATURE:
     68 <221> NAME/KEY: variation
     69 <222> LOCATION: (2663)..(2663)
     70 <223> OTHER INFORMATION: polymorphism C or G
     73 <220> FEATURE:
     74 <221> NAME/KEY: variation
     75 <222> LOCATION: (2796)..(2796)
     76 <223> OTHER INFORMATION: polymorphism A or G
     79 <400> SEQUENCE: 1
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                                                                              120
     82 aagcaagttc acaaatgtct ctaaagtcac agccctgtac tggaaagaga gttgaaccct
                                                                              180
     84 tcttcaggaa gacaataata taataataac aatattttct tcactctgca gtgtctttac
                                                                              240
W--> 86 attccagggt tggnaacatt actgaggatt ctcttcccat tttccagttt cctgttcatt
                                                                              300
     88 attettattt ttttgactge ttttageate gggageacaa aggeeagtea ecaggaattg
                                                                              360
     90 caaacaaatg cgtagtcaga gagagaggc tcactgccca tttgtcatgt ggatgcagac
                                                                              420
     92 acattgcaga tgtgttccca gtaacaatgt cttgagaaga ggactggtct ttccaccagc
                                                                              480
     94 atctcagaaa tgccggtgtg tctaaacagc atgtcgttct ttaatgcttt catgcaatat
                                                                              540
     96 attttatcaa tctcaagttc ccctcactat gtattataat aatttctgct tgttggtaac
                                                                              600
     98 caatgcagat ggaaaattga ttcttaacag aagagaaaga gccaagtatt gatgcttact
                                                                               660
     100 ntttacaccc tattgtatct ttgtaacaaa aacccgggtg gctaagttat gattgggaac
                                                                               720
     102 aagggaatgg ttcaagtcta tgcactaagg aaaaacaaat ctttggccta aaacaataat
                                                                               780
     104 gataatagaa tttaatatag agtagagacc tgttttgtag aataactttc ctagtaatca
                                                                               840
     106 ctgttgaaaa taatcatact agttcacacc gcgcactaca gggattccat cgagggattt
     108 tcccattgaa ggcatttatt tagctaaaag gacttcatct ttaaggcggt aatgcaggac
                                                                               900
                                                                               960
     110 agataacaga gataaagata acaggaggtg atctttcagc tccataatta cattccatat
                                                                              1020
     112 cagcgactgt tgcacagaga aactcaaaag gtaaaaataa aatatgaaag gatatttaaa
     114 atcaaaagna attttatnaa attaagagca tgagacattt atcagttgaa acantctcca
                                                                              1080
                                                                              1140
     116 ataatcttgt gcaatataat ttttgtcaaa ttttattttg tcataaacat ttgggattta
     118 taataaaaat ggaaacttga aaaattatat tagagataat atctgatcat ttcctctggc
                                                                              1200
                                                                              1260
     120 atcctggtga atatgtgttt ttttccgcag gagcactgaa aatcaggaac aatcctgtat
     122 tttttgtgat aatcaacaag gacaaaactt ctccatatgt aaataacagc gttatgagca
                                                                              1320
     124 gcaattcatc cctgctggtg gctgtgcagc tgtgctacgc gaacgtgaat gggtcctgtg
                                                                              1380
     126 tgaaaatccc cttctcgccg ggatcccggg tgattctgta catagtgttt ggctttgggg
                                                                              1440
     128 ctgtgctggc tgtgtttgga aacctcctgg tgatgatttc aatcctccat ttcaagcagc
                                                                              1500
     130 tgcactctcc gaccaatttt ctcgttgcct ctctggcctg cgctgatttc ttggtgggtg
                                                                              1560
     132 tgactgtgat gcccttcagc atggtcagga cggtggagag ctgctggtat tttgggagga
                                                                              1620
     134 gtttttgtac tttccacacc tgctgtgatg tggcattttg ttactcttct ctctttcact
                                                                             1680
                                                                              1740
     136 tgtgcttcat ctccatcgac aggtacattg cggttactga ccccctggtc tatcctacca
                                                                              1800
     138 agttcaccgt atctgtgtca ggaatttgca tcagcgtgtc ctggatcctg ccctcatgt
     140 acagcggtgc tgtgttctac acaggtgtct atgacgatgg gctggaggaa ttatctgatg
                                                                              1860
                                                                              1920
     142 ccctaaactg tataggaggt tgtcagaccg ttgtaaatca aaactgggtg ttgacagatt
                                                                              1980
     144 ttctatcctt ctttatacct acctttatta tgataattct gtatggtaac atatttcttg
                                                                              2040
     146 tggctagacg acaggcgaaa aagatagaaa atactggtag caagacagaa tcatcctcag
     148 agagttacaa agccagagtg gccaggagag agagaaaagc agctaaaacc ctgggggtca
                                                                              2100
                                                                              2160
     150 cagtgntage atttatgatt teatggttae catatageat tgatteatta attgatgeet
     152 ttatgggctt tataacccct gcctntattt atgagatttg ctgttggtgt gcttattata
                                                                              2220
     154 actcagccat gaatcctttg atttatgctt tattttaccc atggtttagg aaagcaataa
                                                                              2280
                                                                              2340
     156 aagttattgt aactggtcag gttttaaaga acagttcagc aaccatgaat ttgttttctg
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RAW SEQUENCE LISTING DATE: 09/03/2003 PATENT APPLICATION: US/10/647,982 TIME: 10:50:42

Input Set : A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

```
158 aacatatata agcagttgna tagacgaagt tcaggatacc tttaaaatta ccaagcgaaa
                                                                          2400
160 tgagttttta aaaatcaagt aagactatga atgaatagca aataaattgc tcttcaaatg
                                                                          2460
                                                                         2520
162 aaaaacaaat caatgttttt cagtcttgtt aagatgtgca ctttcctgtc ccttctgcaa
                                                                         2580
164 aagtatttac ttggctaaca aatgttaaat tcctatttgt taactgcttt agagctcagc
166 atatcccact ccctgcagac actttttgtc ttttaatcca ttgactcttc cctctgctct
                                                                         2640
168 ggtatttttc ctaaaaatat ttntgttttt ttttttttta tttattccct ttcctctttt
                                                                          2700
170 ctttacaaag ctttctactc tttcccagcc tgccaaaaat ttcatttgtg aatagccttt
                                                                         2760
172 atcaaattat tggtttcttt tgctttggtt attttnccac aggagtcctt ttaggtatta
                                                                         2820
174 atttaattta ttcaatcttg ggagagatct cagggtgtat ggggcaattt gcaaatgaag
                                                                         2880
176 acatcatctt gaccaggctg ttgtaattgt caaaccagtt actgtcattc ttgtaattat
                                                                         2940
                                                                         3000
178 ttcctcccc aaagtgggaa gcagaagcca ctgtacttcc cagaatgatg ttaggatgat
180 tatttggctg ctgttcttgc tattgcacaa aactgtttaa agagttggta tgaatagagc
                                                                          3060
182 cctgtgttac attattcagt
                                                                          3080
185 <210> SEQ ID NO: 2
186 <211> LENGTH: 345
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <220> FEATURE:
191 <221> NAME/KEY: VARIANT
192 <222> LOCATION: (265)..(265)
193 <223> OTHER INFORMATION: Polymorphic Amino Acid Val or Ile
196 <220> FEATURE:
197 <221> NAME/KEY: VARIANT
198 <222> LOCATION: (291)..(291)
199 <223> OTHER INFORMATION: Polymorphic Amino Acid Cys or Tyr
202 <400> SEQUENCE: 2
204 Met Ser Ser Asn Ser Ser Leu Leu Val Ala Val Gln Leu Cys Tyr Ala
205 1
                                         10
207 Asn Val Asn Gly Ser Cys Val Lys Ile Pro Phe Ser Pro Gly Ser Arg
208
                20
                                     25
                                                         30
210 Val Ile Leu Tyr Ile Val Phe Gly Phe Gly Ala Val Leu Ala Val Phe
211
            35
                                40
                                                     45
213 Gly Asn Leu Leu Val Met Ile Ser Ile Leu His Phe Lys Gln Leu His
214
        50
                            55
216 Ser Pro Thr Asn Phe Leu Val Ala Ser Leu Ala Cys Ala Asp Phe Leu
                        70
                                             75
219 Val Gly Val Thr Val Met Pro Phe Ser Met Val Arg Thr Val Glu Ser
220
                    85
                                         90
222 Cys Trp Tyr Phe Gly Arg Ser Phe Cys Thr Phe His Thr Cys Cys Asp
223
                100
                                     105
                                                         110
225 Val Ala Phe Cys Tyr Ser Ser Leu Phe His Leu Cys Phe Ile Ser Ile
226
            115
                                120
                                                     125
228 Asp Arg Tyr Ile Ala Val Thr Asp Pro Leu Val Tyr Pro Thr Lys Phe
229
        130
                            135
231 Thr Val Ser Val Ser Gly Ile Cys Ile Ser Val Ser Trp Ile Leu Pro
232 145
                        150
                                             155
                                                                 160
234 Leu Met Tyr Ser Gly Ala Val Phe Tyr Thr Gly Val Tyr Asp Asp Gly
235
                    165
                                         170
                                                             175
237 Leu Glu Glu Leu Ser Asp Ala Leu Asn Cys Ile Gly Gly Cys Gln Thr
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/647,982

DATE: 09/03/2003
TIME: 10:50:42

Input Set : A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

```
190
                                          185
     238
                     180
     240 Val Val Asn Gln Asn Trp Val Leu Thr Asp Phe Leu Ser Phe Phe Ile
                                                           205
                                      200
                 195
     241
     243 Pro Thr Phe Ile Met Ile Ile Leu Tyr Gly Asn Ile Phe Leu Val Ala
                                                       220
                                  215
             210
     244
     246 Arg Arg Gln Ala Lys Lys Ile Glu Asn Thr Gly Ser Lys Thr Glu Ser
                                                                       240
                                                   235
                              230
     247 225
     249 Ser Ser Glu Ser Tyr Lys Ala Arg Val Ala Arg Arg Glu Arg Lys Ala
                                                                   255
                                               250
                          245
     250
W--> 252 Ala Lys Thr Leu Gly Val Thr Val Xaa Ala Phe Met Ile Ser Trp Leu
                                                               270
                                          265
                      260
     253
     255 Pro Tyr Ser Ile Asp Ser Leu Ile Asp Ala Phe Met Gly Phe Ile Thr
                                      280
                 275
     256
     258 Pro Ala Xaa Ile Tyr Glu Ile Cys Cys Trp Cys Ala Tyr Tyr Asn Ser
                                                       300
                                  295
     259
             290
     261 Ala Met Asn Pro Leu Ile Tyr Ala Leu Phe Tyr Pro Trp Phe Arg Lys
                                                                        320
                                                   315
                              310
     262 305
     264 Ala Ile Lys Val Ile Val Thr Gly Gln Val Leu Lys Asn Ser Ser Ala
                                                                   335
                                               330
                          325
     265
     267 Thr Met Asn Leu Phe Ser Glu His Ile
                                           345
     268
                      340
     270 <210> SEQ ID NO: 3
     271 <211> LENGTH: 24
                                                  DSee item 10 on error summary sheet.
     272 <212> TYPE: DNA
     273 <213> ORGANISM: (synthetic construct)
     275 <400> SEQUENCE: 3
     276 agtaggaatc agatagcgag attg
     279 <210> SEQ ID NO: 4
     280 <211> LENGTH: 24
     281 <212> TYPE: DNA
     282 <213> ORGANISM: (synthetic construct
     284 <400> SEQUENCE: 4
     285 actgaataat gtaacacagg gctc
     288 <210> SEQ ID NO: 5
     289 <211> LENGTH: 20
     290 <212> TYPE: DNA
     291 <213> ORGANISM: Synthetic construct
     293 <400> SEQUENCE: 5
                                                                                  20
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     297 <210> SEQ ID NO: 6
     298 <211> LENGTH: 21
     299 <212> TYPE: DNA
     300 <213> ORGANISM: synthetic construct
      302 <400> SEQUENCE: 6
                                                                                  21
     303 agccagcaca gccccaaagc c
      306 <210> SEQ ID NO: 7
      307 <211> LENGTH: 21
      308 <212> TYPE: DNA
      309 <213> ORGANISM ( synthetic construct
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RAW SEQUENCE LISTING PATENT APPLICATION: US/10/647,982 DATE: 09/03/2003 TIME: 10:50:42

Input Set : A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

	odepac 500. 11. (612 1 (65052005 (501/502.24))	
311	<400> SEQUENCE: 7	
	tctatgacga tgggctggag g	21
	<210> SEQ ID NO: 8	
	<211> LENGTH: 21	
317	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct	
320	<400> SEQUENCE: 8	
321	atagacgaag ttcaggatac c	21
324	<210> SEQ ID NO: 9	
325	<211> LENGTH: 15	
326	<212> TYPE: DNA	
327	<213> ORGANISM: synthetic construct	
329	<400> SEQUENCE: 9	
330	cagggttggg aacat	15
333	<210> SEQ ID NO: 10	
334	<211> LENGTH: 16	
335	<212> TYPE: DNA	
336	<213> ORGANISM: synthetic construct	
338	<400> SEQUENCE: 10	
339	agggttggaa acatta	16
342	<210> SEQ ID NO: 11	
343	<211> LENGTH: 20	
	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct	
347	<400> SEQUENCE: 11	
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	<210> SEQ ID NO: 12	
	<211> LENGTH: 18	
	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct	
	<400> SEQUENCE: 12	
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	<210> SEQ ID NO: 13	
	<211> LENGTH: 19	
	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct	
	<400> SEQUENCE: 13	10
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	<210> SEQ ID NO: 14	•
	<211> LENGTH: 19	
	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct	
	<400> SEQUENCE: 14	1.0
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	<210> SEQ ID NO: 15	
	<211> LENGTH: 20	
	<212> TYPE: DNA	
	<213> ORGANISM: synthetic construct (400> SEQUENCE: 15	
202		
	exist throughout	i

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 09/03/2003

PATENT APPLICATION: US/10/647,982

TIME: 10:50:43

Input Set : A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 194,601,1029,1038,1074,2106,2185,2359,2663,2796

Seq#:2; Xaa Pos. 265,291

DATE: 09/03/2003

VERIFICATION SUMMARY

TIME: 10:50:43

PATENT APPLICATION: US/10/647,982

Input Set : A:\01313.txt

Output Set: N:\CRF4\09032003\J647982.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180

M:341 Repeated in SeqNo=1

L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:256

M:341 Repeated in SeqNo=2